(v) 4 3

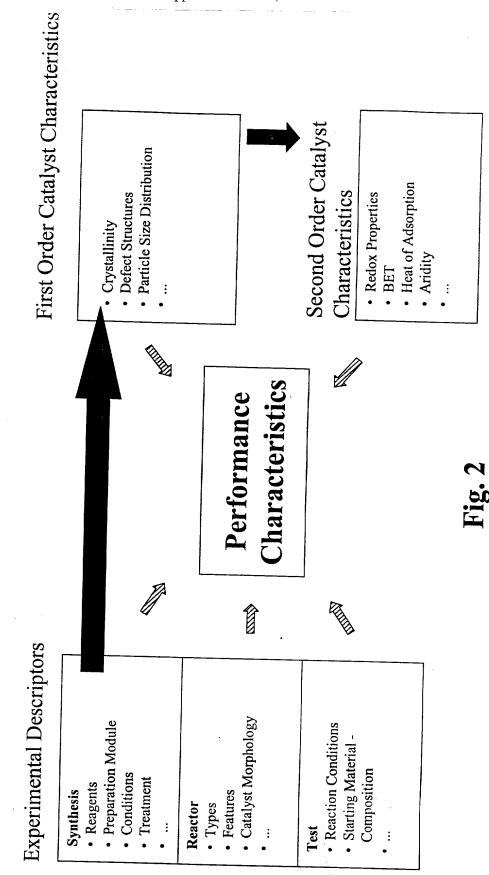
Performance Characteristics

Title: COMPUTER-AIDED OPTIMIZATION OF SUBSTANCE

LIBRARIES

Inventor(s): Stephan SCHUNK et al

Appl. No.: 09/876,142

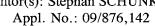


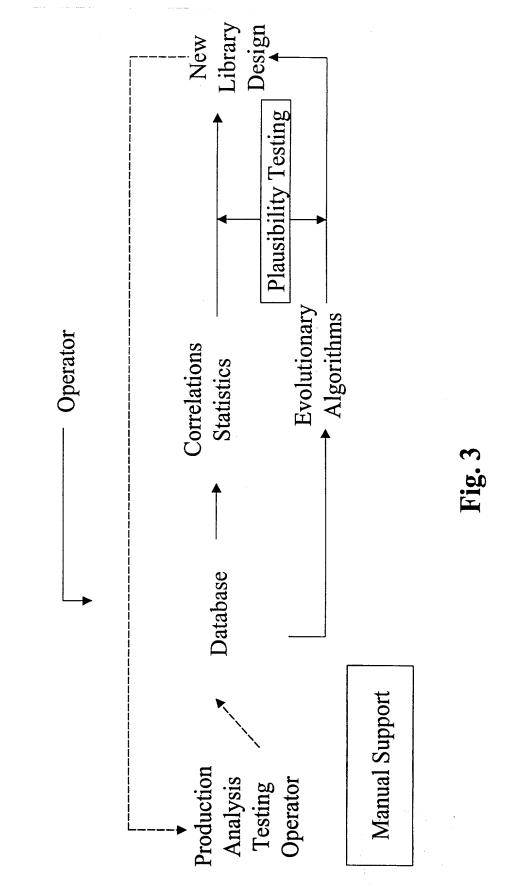
Initial Substance

Library

Title: COMPUTER-AIDED OPTIMIZATION OF SUBSTANCE **LIBRARIES**

Inventor(s): Stephan SCHUNK et al

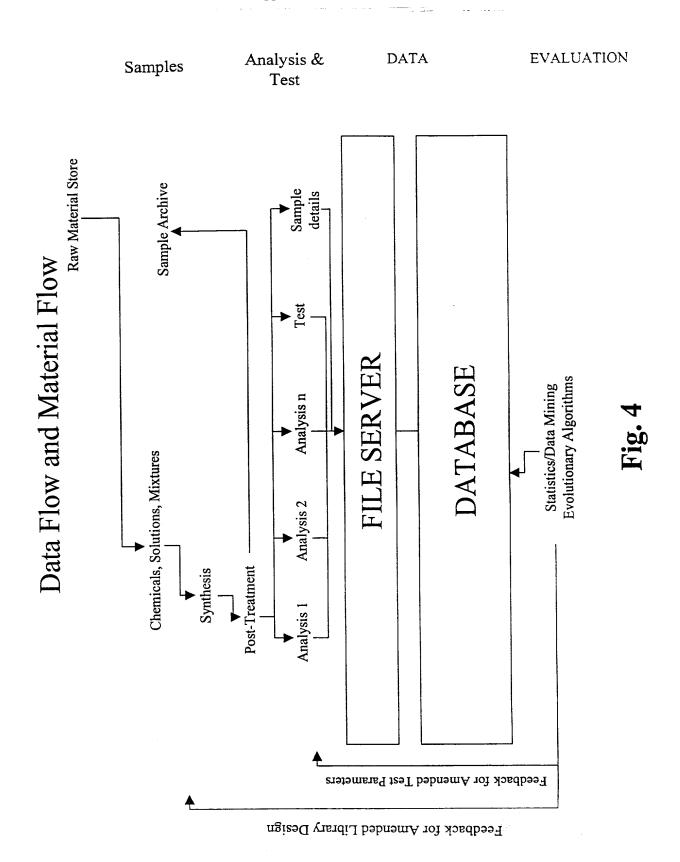




Title: COMPUTER-AIDED OPTIMIZATION OF SUBSTANCE

LIBRARIES

Inventor(s): Stephan SCHUNK et al Appl. No.: 09/876,142



Title: COMPUTER-AIDED OPTIMIZATION OF SUBSTANCE **LIBRARIES**

Inventor(s): Stephan SCHUNK et al

Appl. No.: 09/876,142

Original Library Design and Tests Using the Entire Parameter Space

Step 2: Data Acquisition

Step 1: Design of Library, Test and Process Conditions

Feed

ن ن

Support oxide

Precursor Reduction Oxidation Heat Exchange

Reynolds

	Experiment 1	Experiment 2	Epaiment n
T			
p		(WROSE	
Feed	西水水田		
c_1			
ر ₂		BAN TANA	
Support oxide			
PH	14800		
Precursor			
Reduction	Control .		
Oxidation			
Reynolds			
Heat	SCHARK .		Swale.
Cuange			

‡	1	
+	‡	
‡	+	
Activity	Selectivity	

Fig. 5a

OPTIMIZATION OF SUBSTANCE LIBRARIES

Inventor(s): Stephan SCHUNK et al Appl. No.: 09/876,142

Regression Analysis, Energies of the Parameter Space

Step 5: Amended Design of the Library, Test and Process Conditions Step 4: Test of the Regression Analysis Confirmation of Trends Significant of the Design and Step 3: Evaluation of the Regression Analysis Test Parameters Oxid **X**ion × C 思 Reynolds Feed Support oxide Δ. Reduction Heat Exchange Precursor

Fig. 5b

OPTIMIZATION OF SUBSTANCE

LIBRARIES

Inventor(s): Stephan SCHUNK et al

Appl. No.: 09/876,142

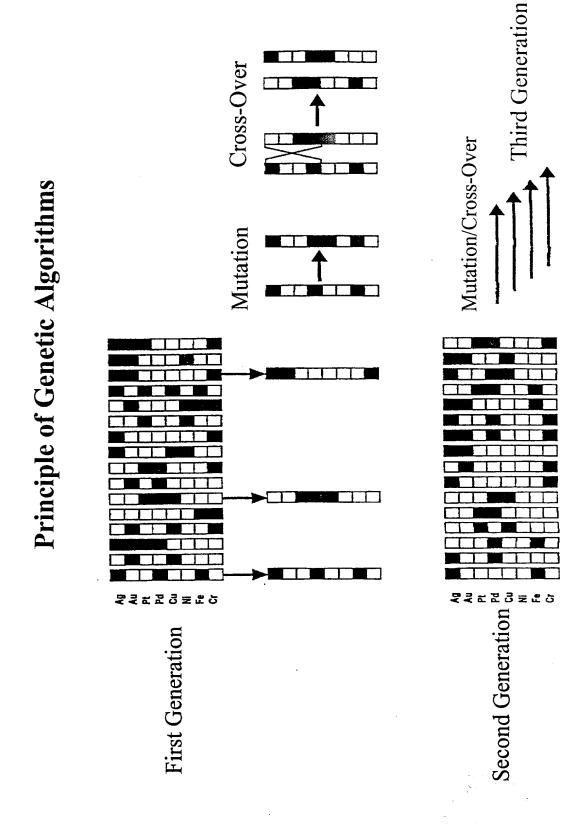


Fig. 5c

OPTIMIZATION OF SUBSTANCE LIBRARIES

Inventor(s): Stephan SCHUNK et al Appl. No.: 09/876,142

Sensitivity Analysis of the Parameters of the Initial Library Pareto Diagram

Pareto Chart of Standardized Effects; Variable: U_NOX 7 factors, 5 Blocks, 96 Runs; MS Residual=128,2875 DV: U_NOX

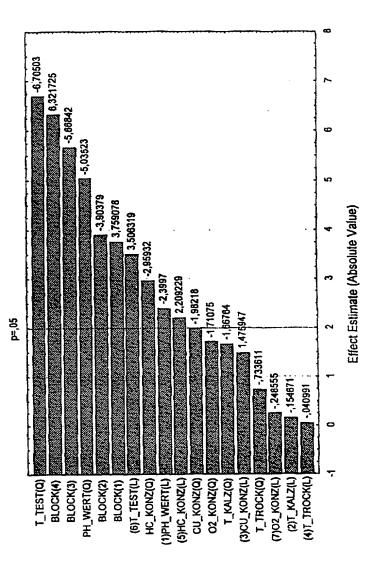


Fig. 6

OPTIMIZATION OF SUBSTANCE **LIBRARIES**

Inventor(s): Stephan SCHUNK et al Appl. No.: 09/876,142

Sensitivity Analysis of the Parameters of the 1st Optimized Library Pareto Diagram



